

Education

- 2018- **PhD Studies in Statistics**, *University of California, Berkeley, USA*.
Advisors: Prof. Shirshendu Ganguly and Prof. Steven Evans
- 2017-2018 **PhD Studies in Mathematics**, *Koç University, Istanbul, Turkey*.
- 2017 **M.Sc. in Mathematics**, *Boğaziçi University, Istanbul, Turkey*.
Advisor: Prof. Ümit Işlak
Thesis Title: On asymptotics of two non-uniform recursive tree models
- 2008-2015 **Philosophy Studies**, *University of Vienna, Vienna, Austria*.
- 2013 **B.Sc. in Mathematics (with distinction)**, *University of Vienna, Vienna, Austria*.
- 2011/12 **Erasmus stay**, *Boğaziçi University, Istanbul, Turkey*.
- 2008 **Austrian Matura and French Baccalauréat (with distinction)**, *Lycée Français de Vienne, Vienna, Austria*.

Research Interests

Random graphs, random matrices, large deviations, spectral properties, mathematical biology, subsequence problems, random permutations

Publications/Preprints

- 2023 (with T. McKenzie) *The Spectral Edge of Constant Degree Erdős-Rényi Graphs*, <https://arxiv.org/abs/2309.11007>
- 2023 (with W. S. DeWitt, S. N. Evans and S. Hummel) *Mean-field interacting multi-type birth-death processes with a view to applications in phylodynamics*, <https://arxiv.org/abs/2307.06010>
- 2022 (with S. Ganguly and K. Nam) *Spectral large deviations of sparse random matrices*, <https://arxiv.org/abs/2206.06954>
- 2022 (with S. Ganguly and K. Nam) *Upper tail behavior of the number of triangles in random graphs with constant average degree*, <https://arxiv.org/abs/2202.06916>, to appear in *Combinatorica*
- 2020 (with Ü. Işlak) *Asymptotic results on Hoppe trees and its variations*, *Journal of Applied Probability*, Vol. 57 (2), pp. 441 - 457, <https://doi.org/10.1017/jpr.2020.12>
- 2018 (with Ü. Işlak) *Some remarks on biased recursive trees*, <https://arxiv.org/abs/1801.04617>

Conference Publications

- 2015/2022 *Found in Translation, Multilingualism and Philosophy*, in *Critical Conversations in African Philosophy, Asixoxe - Let's talk*, edited by Alena Rettová, Benedetta Lanfranchi and Miriam Pahl, Routledge, New York

Fellowships, scholarships and awards

- 2022/2023 Citadel Securities Berkeley Fellowship, University of California, Berkeley
- 2021 Teaching Effectiveness Award, University of California, Berkeley
- 2020 Outstanding Graduate Student Instructor Award, University of California, Berkeley

2010, 2013 Performance Scholarship, University of Vienna

Talks and Posters

- 09/2023 *Mean-field interacting multi-type birth-death processes with a view to applications in phylogenetics*, Probability Seminar, University of California, Berkeley
- 07/2023 *Edge eigenvalues and eigenvector localization in Erdős-Rényi graphs with constant average degree*, Conference on Stochastic Processes and Applications, University of Lisbon
- 09/2022 *Large deviations of the largest eigenvalue of sparse random graphs with non-Gaussian edge weights*, Graduate Student Probability Conference, University of Wisconsin, Madison
- 04/2022 *Tails of some non-linear observables in random graphs with constant average degree*, Probability Seminar, University of California, Berkeley
- 04/2022 *Tails of some non-linear observables in random graphs with constant average degree*, Probability Seminar, Purdue University, Indiana
- 03/2022 *The tail of the triangle count in Erdős-Rényi graphs with constant average degree*, Seminar on Stochastic Processes, Lehigh University, Pennsylvania
- 11/2021 *Large deviations of the largest eigenvalue of sparse graphs with non-Gaussian edge weights*, Northeast Probability Seminar, CUNY, New York
- 05/2018 *Stein's method and distributional approximations for hitting times*, Probability Days, IMBM, Istanbul
- 04/2018 *Spectral methods for mixing times of Markov chains*, Boğaziçi University, Istanbul
- 12/2017 *First moment problem for expected length of longest common subsequences in random permutations*, IMBM, Istanbul
- 05/2015 *Found in Translation, Multilingualism and Philosophy*, Asixoxe - Let's Talk!, SOAS, University of London

Summer Schools and Workshops

- 06/2023 Probability meets Biology II, University of Bath, United Kingdom
- 08/2020 Graduate Remote Instruction Innovation Fellows Program, GSI Teaching & Resource Center, University of California, Berkeley, USA
- 07/2019 Data Science Workshop, GDSO, University of California, Berkeley, USA
- 01/2018 Random matrices and number theory, Nesin Mathematics Village, Izmir, Turkey
- 01/2018 Winter school on number theory and probability theory, Boğaziçi University, Istanbul, Turkey
- 08/2017 Mathematics summer school, Nesin Mathematics Village, Izmir, Turkey

Teaching Experience

- 2019-2023 **University of California, Berkeley**, *Statistics Department*, Graduate student instructor.
 - Stat 20 Introduction to Probability and Statistics
 - Stat 134 Concepts of Probability
 - Stat 150 Stochastic Processes
 - Stat 155 Game Theory
 - Stat 204 Probability for Applications (Graduate Level)
 - Stat 205B Probability Theory (Graduate level)
 - Stat 206 Advanced Topics in Probability and Stochastic Processes (Graduate level)
- 2017-2018 **Koç University**, *Mathematics Department*, Teaching assistant.
 - Math 107 Introduction to Linear Algebra

- Math 531 Real Analysis
07/2017 **Feza Gürsey Summer School**, Teaching assistant.
Analysis
2013/14 **University of Vienna**, *Philosophy Department*, Teaching assistant.
Introduction to Theoretical Philosophy

Other working experience

- Summer 2022 **University of Illinois at Urbana-Champaign**, *School of Molecular and Cellular Biology*,
Internship Program of the Institute for Mathematical and Statistical Innovation.
Project: Discovery of novel CNF1-like proteins
Supervisors: Dr. Wilson and Dr. Ho

Service

- 2021-2023 **Student Probability Seminar**, *University of California, Berkeley*.
Co-organizer with Adam Q. Jaffe
2018-2023 **Statistics Graduate Student Association**, *University of California, Berkeley*.
Co-president with Daniel Soriano 2020/21
Social Committee, Graduate Assembly Representative, Student Seminar, Website Committee

Languages

- German**, Native.
English, Fluent.
French, Advanced.
Turkish, Advanced.
Spanish, Beginner.